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Firefighters' Retirement System of Louisiana

First Quarter 2017 Private Equity Review

August, 2017

David Barnes, CFA, CAIA
Senior Consultant

255 State Street, Boston, MA 02109
TEL: 617.374.1300 | FAX: 617.374.1313 | www.nepc.com

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- The Investment Performance Analysis is provided as a management aid for the client's internal use only. Portfolio performance reported in the Investment Performance Analysis does not constitute a recommendation by NEPC, LLC.
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NEPC, LLC

August, 2017

Firefighters' Retirement System of Louisiana

RE: Private Markets Strategy – 1st Quarter 2017

Dear Members,

We are pleased to present the March 31, 2017 Private Equity Report for the Firefighters' Retirement System of Louisiana. The report provides a variety of performance analysis for the overall portfolio. The reports include trailing performance, performance by investment stage and vintage year performance.

The Firefighters' Retirement System of Louisiana experienced a positive quarter, having a nominal IRR of 1.47%. The IRR since inception is 0.88%. The overall multiple (current valuation plus cumulative distributions, divided by total capital calls) is 1.04.

The following table presents the status of the Firefighters' Retirement System of Louisiana private markets portfolio as of March 31, 2017:

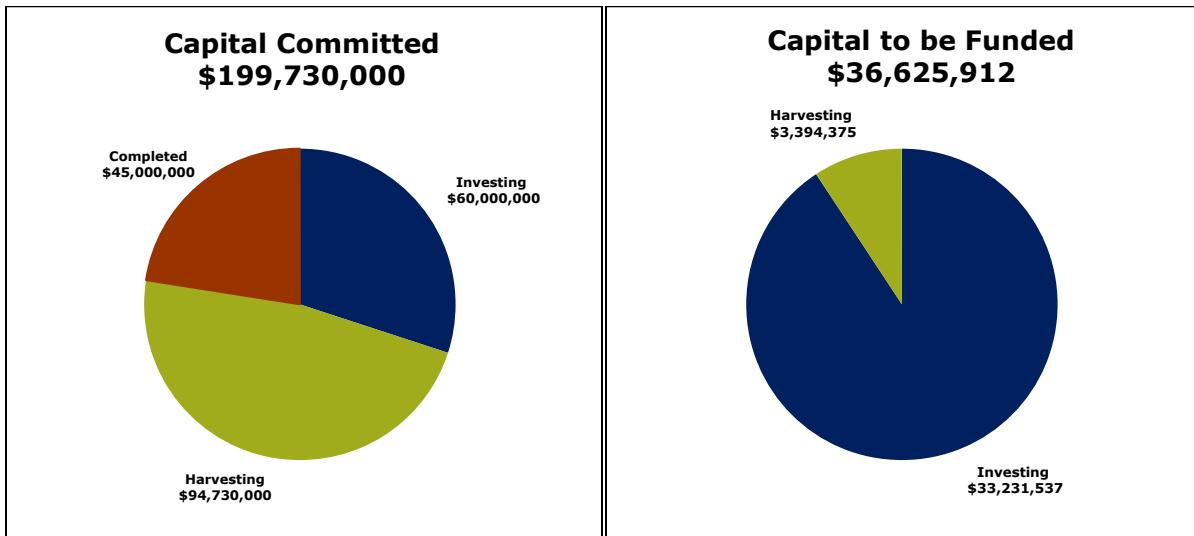
Commitments	Terminated Commitments	Amount Funded	Amount Distributed	Reported Value	Call Ratio	Distribution Ratio
\$199,730,000	\$0	\$163,104,088	\$121,681,381	\$47,968,174	81.66%	74.60%

Unfunded Commitments	Market Exposure (Reported Value + Unfunded Commitments)	Total Fund Composite as of 3/31/2017	Alternative Assets Target	Reported Value as a % of Total Fund	Market Exposure as a % Total Fund
\$36,625,912	\$84,594,086	\$1,490,211,823	4%*	3.22%	5.7%

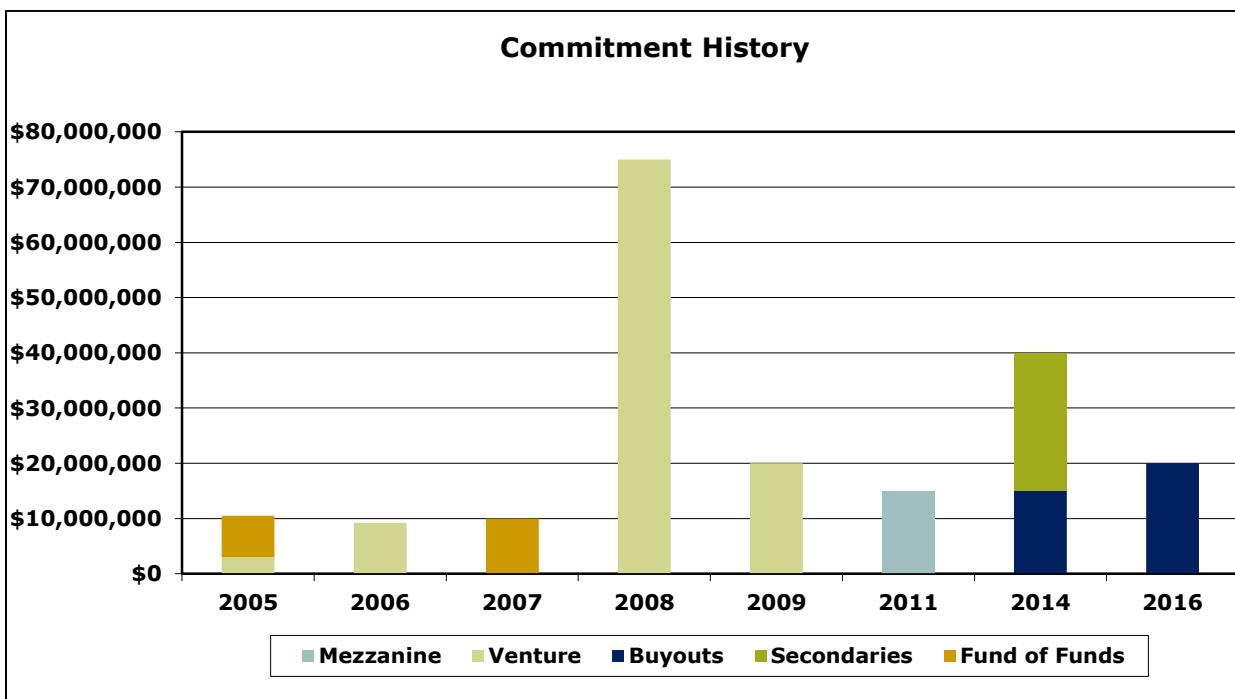
Total Value (Reported Value + Distributions)	Total Value To Paid In Capital	Internal Rate of Return IRR, Since Inception (January 2005)
\$169,649,555	1.04	0.88%



As of March 31, 2017, the Firefighters' Retirement System of Louisiana had commitments totaling \$199.73 million to 13 private markets fund. Of the 13 funds in the private equity portfolio, 3 are in the investing stage, 8 are in the harvesting stage and 2 have been completed. The following charts illustrate the program's current life cycle:

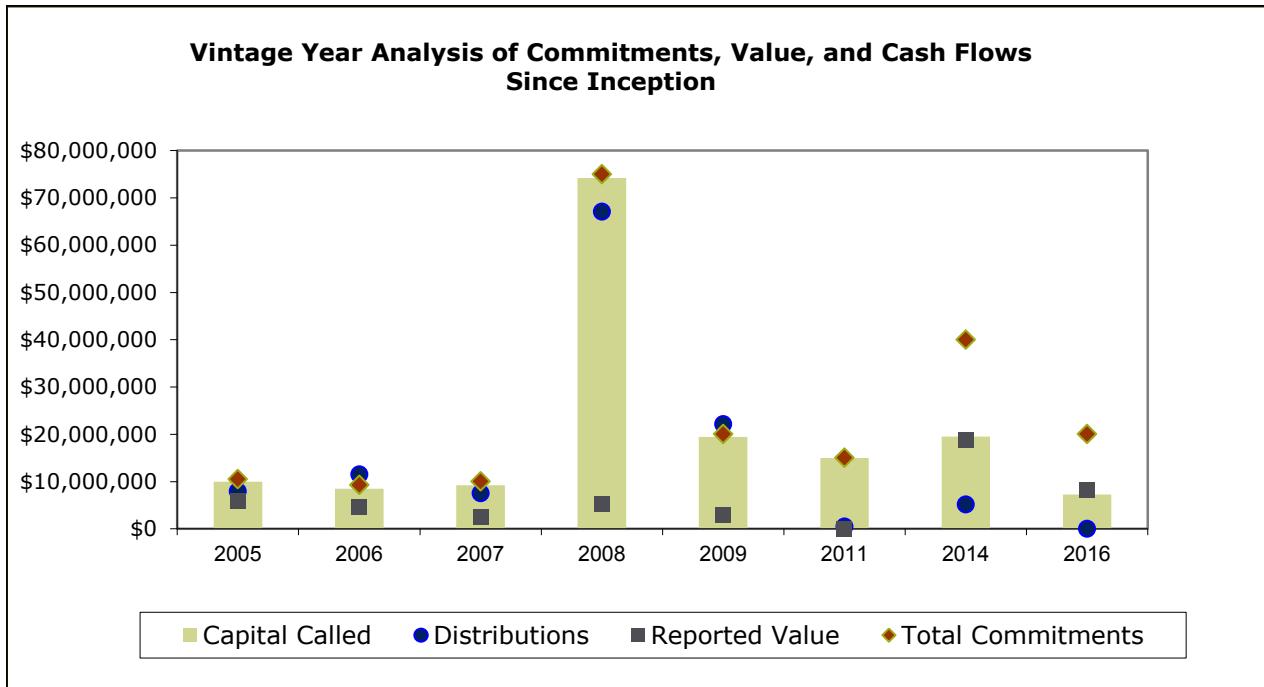


The following chart illustrates the commitment history of the Firefighters' Retirement System of Louisiana private markets program through the quarter end:





The following chart provides an analysis of the vintage year performance comparing the capital calls to the distributions and reported value:

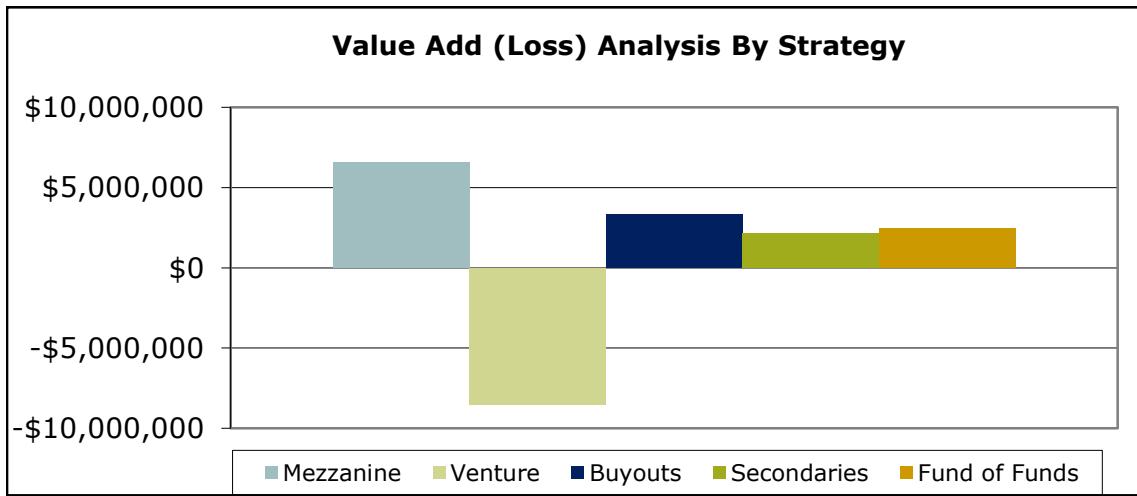


During the quarter-ended March 31, 2017, 4 funds in the Firefighters' Retirement System of Louisiana private markets portfolio drew capital and 7 funds made a distribution. The summary of the cash flow follows:

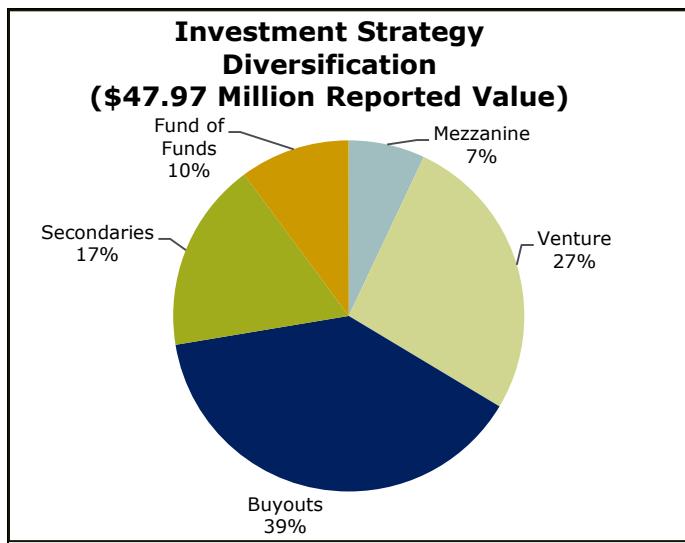
Calls & Expenses Funded for the Quarter	Number of Funds Calling Capital & Expenses	Distributions for the Quarter	Number of Funds Making Distributions	Net Cash/Stock Flows for the Quarter
\$4,392,519	4	\$8,547,908	7	\$4,155,389



Since inception the private markets program has gained \$6.03 million in value for the Firefighters' Retirement System of Louisiana. Mezzanine added \$6.59 million, Fund of Funds added \$2.348 million, Buyouts added \$3.34 million and Secondaries added \$2.16 million. Venture has lost (\$8.54) million.



As of March 31, 2017, the 13 private markets funds in the Firefighters' Retirement System of Louisiana portfolio had the following investment strategy diversification by the investment fund's reported value:



We thank you for the opportunity to work with the Firefighters' Retirement System of Louisiana and look forward to continued success in the future.

Best regards,

David Barnes, CFA
Senior Consultant

Firefighters' Retirement System of Louisiana

Executive IRR Summary

3/31/2017

Investment Name	Vintage Year	Commitment Amount	QTD	YTD	1 Year	3 Year	5 Year	Inception
CCMP Capital Investors III, L.P.	2014	15,000,000	3.44	3.44	18.78			13.08
DCM Private Equity Fund II	2007	10,000,000	1.17	1.17	0.29	-5.72	0.63	0.25
DTC Private Equity II-Q, L.P.	2005	7,500,000	5.99	5.99	6.98	5.50	7.25	5.20
Franchise Capital Partners II, L.P.	2008	20,000,000	8.88	8.88	-42.24	-8.85	-1.28	1.43
Franchise Capital Partners III, L.P.	2009	20,000,000	1.84	1.84	6.24	-5.41	4.97	7.90
Greenspring Crossover Ventures, L.P.	2008	25,000,000	-6.33	-6.33	27.01	14.49	25.15	11.74
Greenspring Global Partners III-A, L.P.	2006	9,230,000	0.78	0.78	5.99	13.76	15.77	11.36
HarbourVest Partners Co-Investment IV	2016	20,000,000	13.84	13.84				20.84
Landmark Equity Partners XV, L.P.	2014	25,000,000	-0.83	-0.83	11.47			15.38
Louisiana Fund I	2005	1,000,000	-0.18	-0.18	-7.42	-5.04	-3.52	7.73
Murphree Venture Partners VI, LP	2005	2,000,000	-0.07	-0.07	4.87	-0.75	2.55	2.71
Sail Sustainable Louisiana LP	2011	15,000,000						
SAIL Venture Partners II	2008	30,000,000						
Total: Firefighters' Retirement System of Louisiana		199,730,000	1.47	1.47	13.40	-4.19	-4.90	0.88

Firefighters' Retirement System of Louisiana

Performance Analysis

3/31/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
1 CCMP Capital Investors III, L.P.	2014	15,000,000	8,400,664	6,599,336	-103,740	288,807	10,412,383	10,701,190	2,404,266	56%	0.03	1.29	13.08%
2 DCM Private Equity Fund II	2007	10,000,000	9,223,230	776,770	693,545	7,528,263	2,518,444	10,046,707	129,931	92%	0.76	1.01	0.25%
3 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,012,500	2,345,923	9,358,423	2,353,423	93%	1.00	1.34	5.20%
4 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,747,117	439,656	20,186,773	997,775	96%	1.03	1.05	1.43%
5 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	573,203	0	22,091,294	2,926,473	25,017,767	5,590,970	97%	1.14	1.29	7.90%
6 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,661,262	50,325,474	25,325,474	100%	1.83	2.01	11.74%
7 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,642,809	16,171,468	7,679,868	92%	1.36	1.90	11.36%
8 HarbourVest Partners Co-Investment IV	2016	20,000,000	7,250,000	12,750,000	0	0	8,182,835	8,182,835	932,835	36%	0.00	1.13	20.84%
9 Landmark Equity Partners XV, L.P.	2014	25,000,000	11,117,799	13,882,201	-74,562	4,821,356	8,385,119	13,206,475	2,163,238	44%	0.44	1.20	15.38%
10 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,834,668	1,859,985	859,985	100%	0.03	1.86	7.73%
11 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	1,618,602	2,467,061	467,061	100%	0.42	1.23	2.71%
12 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
13 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Total: Firefighters' Retirement System of Louisiana		199,730,000	163,104,088	36,625,912	515,243	121,681,381	47,968,174	169,649,555	6,030,224	82%	0.74	1.04	0.88%

Firefighters' Retirement System of Louisiana

Lifecycle Performance Analysis

3/31/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
2 Investing													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	8,400,664	6,599,336	-103,740	288,807	10,412,383	10,701,190	2,404,266	56%	0.03	1.29	13.08%
2 HarbourVest Partners Co-Investment IV	2016	20,000,000	7,250,000	12,750,000	0	0	8,182,835	8,182,835	932,835	36%	0.00	1.13	20.84%
3 Landmark Equity Partners XV, L.P.	2014	25,000,000	11,117,799	13,882,201	-74,562	4,821,356	8,385,119	13,206,475	2,163,238	44%	0.44	1.20	15.38%
Subtotal: 2 Investing		60,000,000	26,768,463	33,231,537	-178,302	5,110,163	26,980,337	32,090,500	5,500,339	45%	0.19	1.21	15.73%
3 Harvesting													
1 DCM Private Equity Fund II	2007	10,000,000	9,223,230	776,770	693,545	7,528,263	2,518,444	10,046,707	129,931	92%	0.76	1.01	0.25%
2 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,012,500	2,345,923	9,358,423	2,353,423	93%	1.00	1.34	5.20%
3 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,747,117	439,656	20,186,773	997,775	96%	1.03	1.05	1.43%
4 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	573,203	0	22,091,294	2,926,473	25,017,767	5,590,970	97%	1.14	1.29	7.90%
5 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,661,262	50,325,474	25,325,474	100%	1.83	2.01	11.74%
6 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,642,809	16,171,468	7,679,868	92%	1.36	1.90	11.36%
7 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,834,668	1,859,985	859,985	100%	0.03	1.86	7.73%
8 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	1,618,602	2,467,061	467,061	100%	0.42	1.23	2.71%
Subtotal: 3 Harvesting		94,730,000	91,335,625	3,394,375	693,545	114,445,820	20,987,837	135,433,657	43,404,487	96%	1.24	1.47	7.86%
5 Completed													
1 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
2 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 5 Completed		45,000,000	45,000,000	0	0	2,125,398	0	2,125,398	-42,874,602	100%	0.05	0.05	N/A
Total: Firefighters' Retirement System of Louisiana		199,730,000	163,104,088	36,625,912	515,243	121,681,381	47,968,174	169,649,555	6,030,224	82%	0.74	1.04	0.88%

Firefighters' Retirement System of Louisiana

Vintage Year Performance Analysis

3/31/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
2005													
1 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,012,500	2,345,923	9,358,423	2,353,423	93%	1.00	1.34	5.20%
2 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,834,668	1,859,985	859,985	100%	0.03	1.86	7.73%
3 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	1,618,602	2,467,061	467,061	100%	0.42	1.23	2.71%
Subtotal: 2005		10,500,000	10,005,000	495,000	0	7,886,276	5,799,193	13,685,469	3,680,469	95%	0.79	1.37	4.97%
2006													
1 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,642,809	16,171,468	7,679,868	92%	1.36	1.90	11.36%
Subtotal: 2006		9,230,000	8,491,600	738,400	0	11,528,659	4,642,809	16,171,468	7,679,868	92%	1.36	1.90	11.36%
2007													
1 DCM Private Equity Fund II	2007	10,000,000	9,223,230	776,770	693,545	7,528,263	2,518,444	10,046,707	129,931	92%	0.76	1.01	0.25%
Subtotal: 2007		10,000,000	9,223,230	776,770	693,545	7,528,263	2,518,444	10,046,707	129,931	92%	0.76	1.01	0.25%
2008													
1 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,747,117	439,656	20,186,773	997,775	96%	1.03	1.05	1.43%
2 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,661,262	50,325,474	25,325,474	100%	1.83	2.01	11.74%
3 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 2008		75,000,000	74,188,998	811,002	0	67,087,587	5,100,918	72,188,505	-2,000,493	99%	0.90	0.97	-0.58%
2009													
1 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	573,203	0	22,091,294	2,926,473	25,017,767	5,590,970	97%	1.14	1.29	7.90%
Subtotal: 2009		20,000,000	19,426,797	573,203	0	22,091,294	2,926,473	25,017,767	5,590,970	97%	1.14	1.29	7.90%
2011													
1 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
Subtotal: 2011		15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
2014													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	8,400,664	6,599,336	-103,740	288,807	10,412,383	10,701,190	2,404,266	56%	0.03	1.29	13.08%
2 Landmark Equity Partners XV, L.P.	2014	25,000,000	11,117,799	13,882,201	-74,562	4,821,356	8,385,119	13,206,475	2,163,238	44%	0.44	1.20	15.38%
Subtotal: 2014		40,000,000	19,518,463	20,481,537	-178,302	5,110,163	18,797,502	23,907,665	4,567,504	49%	0.26	1.24	14.08%
2016													
1 HarbourVest Partners Co-Investment IV	2016	20,000,000	7,250,000	12,750,000	0	0	8,182,835	8,182,835	932,835	36%	0.00	1.13	20.84%
Subtotal: 2016		20,000,000	7,250,000	12,750,000	0	0	8,182,835	8,182,835	932,835	36%	0.00	1.13	20.84%
Total: Firefighters' Retirement System of Louisiana		199,730,000	163,104,088	36,625,912	515,243	121,681,381	47,968,174	169,649,555	6,030,224	82%	0.74	1.04	0.88%

Firefighters' Retirement System of Louisiana

Investment Strategy Performance Analysis

3/31/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
100 Venture													
1 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,661,262	50,325,474	25,325,474	100%	1.83	2.01	11.74%
2 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,642,809	16,171,468	7,679,868	92%	1.36	1.90	11.36%
3 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,834,668	1,859,985	859,985	100%	0.03	1.86	7.73%
4 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	1,618,602	2,467,061	467,061	100%	0.42	1.23	2.71%
5 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
6 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 100 Venture		82,230,000	81,491,600	738,400	0	60,192,045	12,757,341	72,949,386	-8,542,214	99%	0.74	0.90	-2.22%
120 Buyouts													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	8,400,664	6,599,336	-103,740	288,807	10,412,383	10,701,190	2,404,266	56%	0.03	1.29	13.08%
2 HarbourVest Partners Co-Investment IV	2016	20,000,000	7,250,000	12,750,000	0	0	8,182,835	8,182,835	932,835	36%	0.00	1.13	20.84%
Subtotal: 120 Buyouts		35,000,000	15,650,664	19,349,336	-103,740	288,807	18,595,218	18,884,025	3,337,101	45%	0.02	1.21	15.97%
130 Mezzanine													
1 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,747,117	439,656	20,186,773	997,775	96%	1.03	1.05	1.43%
2 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	573,203	0	22,091,294	2,926,473	25,017,767	5,590,970	97%	1.14	1.29	7.90%
Subtotal: 130 Mezzanine		40,000,000	38,615,795	1,384,205	0	41,838,411	3,366,129	45,204,540	6,588,745	97%	1.08	1.17	4.58%
140 Secondaries													
1 Landmark Equity Partners XV, L.P.	2014	25,000,000	11,117,799	13,882,201	-74,562	4,821,356	8,385,119	13,206,475	2,163,238	44%	0.44	1.20	15.38%
Subtotal: 140 Secondaries		25,000,000	11,117,799	13,882,201	-74,562	4,821,356	8,385,119	13,206,475	2,163,238	44%	0.44	1.20	15.38%
170 Fund of Funds													
1 DCM Private Equity Fund II	2007	10,000,000	9,223,230	776,770	693,545	7,528,263	2,518,444	10,046,707	129,931	92%	0.76	1.01	0.25%
2 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,012,500	2,345,923	9,358,423	2,353,423	93%	1.00	1.34	5.20%
Subtotal: 170 Fund of Funds		17,500,000	16,228,230	1,271,770	693,545	14,540,763	4,864,367	19,405,130	2,483,354	93%	0.86	1.15	2.52%
Total: Firefighters' Retirement System of Louisiana		199,730,000	163,104,088	36,625,912	515,243	121,681,381	47,968,174	169,649,555	6,030,224	82%	0.74	1.04	0.88%

Firefighters' Retirement System of Louisiana

Transaction Summary

1/1/2017 - 3/31/2017

Date	Paid in Capital	Additional Fees	Distributions	Net Cash Flow
Firefighters' Retirement System of Louisiana				
CCMP Capital Investors III, L.P.				
02/16/2017	116,883.00			116,883.00
02/16/2017			55,413.00	61,470.00
Total: CCMP Capital Investors III, L.P.				
	116,883.00		55,413.00	61,470.00
DCM Private Equity Fund II				
03/30/2017	-4,094.53			-4,094.53
03/30/2017	18,664.53			14,570.00
03/30/2017			179,438.87	-164,868.87
Total: DCM Private Equity Fund II				
	14,570.00		179,438.87	-164,868.87
DTC Private Equity II-Q, L.P.				
03/06/2017			375,000.00	-375,000.00
Total: DTC Private Equity II-Q, L.P.				
			375,000.00	-375,000.00
Franchise Capital Partners III, L.P.				
02/10/2017			174,223.00	-174,223.00
Total: Franchise Capital Partners III, L.P.				
			174,223.00	-174,223.00
Greenspring Crossover Ventures, L.P.				
03/23/2017			7,212,734.00	-7,212,734.00
Total: Greenspring Crossover Ventures, L.P.				
			7,212,734.00	-7,212,734.00
Greenspring Global Partners III-A, L.P.				
02/16/2017			177,933.00	-177,933.00
Total: Greenspring Global Partners III-A, L.P.				
			177,933.00	-177,933.00

Firefighters' Retirement System of Louisiana

Transaction Summary

1/1/2017 - 3/31/2017

Date	Paid in Capital	Additional Fees	Distributions	Net Cash Flow
Firefighters' Retirement System of Louisiana				
HarbourVest Partners Co-Investment IV				
01/03/2017	3,400,000.00			3,400,000.00
Total: HarbourVest Partners Co-Investment IV				
	3,400,000.00			3,400,000.00
 Landmark Equity Partners XV, L.P.				
01/06/2017	654,614.00			654,614.00
02/06/2017	206,452.00			861,066.00
02/21/2017		209,050.00		652,016.00
03/30/2017		164,116.00		487,900.00
Total: Landmark Equity Partners XV, L.P.				
	861,066.00		373,166.00	487,900.00
Total:	4,392,519.00		8,547,907.87	-4,155,388.87